



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/760,270	01/21/2004	Kia Silverbrook	RRA23US	1025
24011 7590 08/16/2007 SILVERBROOK RESEARCH PTY LTD 393 DARLING STREET BALMAIN, 2041 AUSTRALIA			EXAMINER UHLENHAKE, JASON S	
			ART UNIT 2853	PAPER NUMBER
			MAIL DATE 08/16/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/760,270

Applicant(s)

SILVERBROOK, KIA

Examiner

Jason Uhlenhake

Art Unit

2853

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 05 June 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-6 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-6 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 11 July 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- ☐ Notice of Informal Patent Application
- ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bolash et al (U.S. Pat. 6,183,063) in view of Silverbrook (U.S. Pat. 6,238,043)

Bolash discloses:

- ***regarding claim 1***, a body defining a recess (20, 22) dimensioned to locate a removable inkjet cartridge (Figure 1; Column 3, Lines 24-35; Lines 65-67), the inkjet cartridge having a pagewidth printhead (Figure 1; Column 3, Lines 45-46) and an ink supply, such that the cradle and cartridge together form an inkjet printer (Column 3, Lines 24-26)
- terminals positioned upon the body to contact corresponding terminals located upon the removable inkjet cartridge upon insertion of said cartridge into the recess thereby facilitating electrical communication between cradle and the printhead of said cartridge for causing ink ejection from the printhead (Column 3, Line 65 – Column 4, Line 11)

Bolash does not disclose expressly the following:

- ***regarding claim 1***, an authentication device and verification circuit for authenticating the cartridge upon insertion

Silverbrook discloses:

- ***regarding claim 1***, an authentication device and verification circuit for authenticating the cartridge upon insertion (Column 8, Lines 23-27), for the purpose of maintaining the best possible print quality

At the time the invention was made it would have been obvious to a person of ordinary skill in the art to incorporate the teaching of Silverbrook into the device of Bolash, for the purpose of maintaining the best possible print quality

Claims 2, 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bolash et al (U.S. Pat. 6,183,063) as modified by Silverbrook (U.S. Pat. 6,238,043) as applied to claim 1 above, and further in view of Silverbrook et al (U.S. Pat. 6,588,952).

Bolash as modified by Silverbrook ('043) discloses all the claimed limitations except for the following:

- ***regarding claim 2***, wherein the terminals are located upon one or more walls of the recess
- ***regarding claim 5***, wherein the terminals comprise data and power terminals

Silverbrook ('952) discloses:

- ***regarding claim 2***, wherein the terminals are located upon one or more walls of the recess (Column 4, Lines 54 – 59), for the purpose of communicating print data to the printhead.

Art Unit: 2853

- **regarding claim 5**, wherein the terminals comprise data and power terminals (Column 4, Lines 46 – 59), for the purpose of communicating print data to the printhead.

At the time the invention was made it would have been obvious to a person of ordinary skill in the art to incorporate the teaching of Silverbrook ('952) into the device of Bolash as modified by Silverbrook ('043), for the purpose of communicating the print data to the printhead.

Claims 3-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bolash et al (U.S. Pat. 6,183,063) as modified by Silverbrook (U.S. Pat. 6,238,043) and Silverbrook et al (U.S. Pat. 6,588,952) as applied to claim 1 above, and further in view of Silverbrook et al (U. S. Pat. 6,755,513).

Bolash as modified by Silverbrook ('043) and Silverbrook ('952) discloses:

- **regarding claim 3 and 4**, wherein the recess (20, 22) is elongate (Figure 1; Column 3, Lines 65-67))

Bolash as modified by Silverbrook ('043) and Silverbrook ('952) does not disclose expressly:

- **regarding claim 3**, wherein the terminals are located on at least one end wall of the recess

- **regarding claim 4**, wherein the terminals are located on opposing end wall of the recess

Silverbrook et al ('513) discloses:

- **regarding claim 3**, wherein the terminals are located on at least one end wall of the recess. (Column 9, Lines 20 – 34; Claims 3 – 5; Figure 2), for the purpose of establishing communication with the removable inkjet cartridge.

- **regarding claim 4**, wherein the terminals are located on opposing end wall of the recess (Column 9, Lines 20 – 34; Claims 3 – 5; Figure 2), for the purpose of establishing communication with the removable inkjet cartridge.

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to incorporate the teaching of Silverbrook et al ('513) into the device of Bolash as modified by Silverbrook ('043) and Silverbrook ('952), for the purpose of communicating print data to the printhead and establishing communication with the removable inkjet cartridge.

Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bolash et al (U.S. Pat. 6,183,063) in view of Silverbrook (U.S. Pat. 6,238,043), Silverbrook et al (U.S. Pat. 6,588,952) and Silverbrook et al (U. S. Pat. 6,755,513).

Bolash discloses:

- **regarding claim 6**, a body defining an elongate recess (Figure 1, 20, 22) dimensioned to locate a removable inkjet cartridge (Figure 1; Column 3, Lines 24-35; Lines 65-67), the inkjet cartridge having a pagewidth printhead (Figure 1; Column 3, Lines 45-46) and an ink supply; such that the cradle and cartridge together form an inkjet printer (Column 3, Lines 24-26)

- terminals positioned upon the body to contact corresponding terminals located upon the removable inkjet cartridge upon insertion of said cartridge into the recess thereby facilitating electrical communication between cradle and the printhead of said cartridge for causing ink ejection from the printhead (Column 3, Line 65 – Column 4, Line 11)

Bolash does not disclose expressly the following:

- ***regarding claim 6***, power and data terminals; terminals positioned upon opposing end walls of the recess
- ***further regarding claim 6***, an authentication device and verification circuit for authenticating the cartridge upon insertion

Silverbrook ('043) discloses:

- ***regarding claim 6***, an authentication device and verification circuit for authenticating the cartridge upon insertion (Column 8, Lines 23-27), for the purpose of maintaining the best possible print quality

Silverbrook ('952) discloses:

- ***regarding claim 6***, power and data terminals (Column 4, Lines 46 – 59), for the purpose of establishing communication with the removable inkjet cartridge.

Silverbrook et al ('513) discloses:

- ***regarding claim 6***, terminals positioned upon opposing end walls of the recess (Column 9, Lines 20 – 34; Claims 3 – 5; Figure 2), for the purpose of establishing communication with the removable inkjet cartridge.

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to incorporate the teaching of Silverbrook ('043), Silverbrook ('952) and Silverbrook et al ('513) into the device of Bolash, for the purpose of establishing communication with the removable inkjet cartridge and maintaining the best possible print quality

Response to Arguments

Applicant's arguments with respect to claims 1-6 have been considered but are moot in view of the new ground(s) of rejection. Please see the above rejections regarding Bolash et al (U.S. Pat. 6,183,063) in view of Silverbrook (U.S. Pat. 6,238,043)

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

Art Unit: 2853


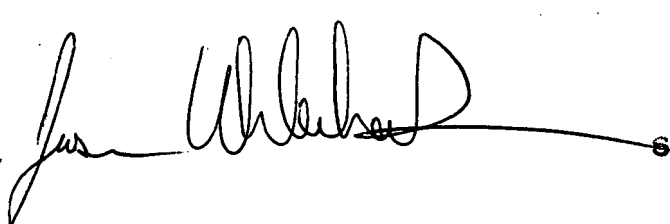
the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason Uhlenhake whose telephone number is (571) 272-5916. The examiner can normally be reached on Monday - Friday 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Meier can be reached on (571) 272-2149. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JSU
August 7, 2007



STEPHEN MEIER
SUPERVISORY PATENT EXAMINER